

Patent Abstracts of Japan

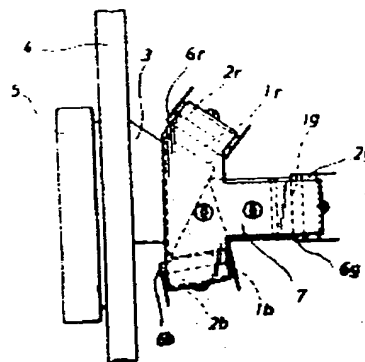
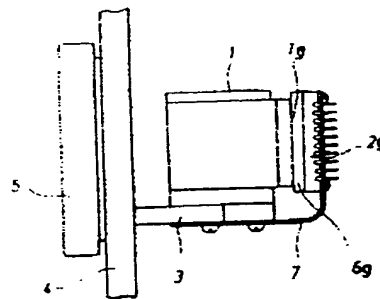
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TITLE : SOLID-STATE COLOR IMAGE PICKUP DEVICE



ABSTRACT : PURPOSE: To minimize the temperature-rise of a solid-state image sensor by providing a thermal member small in thermal resistance which thermally shortcircuits between a casing to which a color-separating prism is attached and a package of the said sensor on which the said prism is fixed.

CONSTITUTION: The color-separating prism 1 is attached and fixed to the casing through a prism-attaching metal of aluminum 3. For respective CCD sensors 2r, 2g, and 2b, a radiating member 7 consisting of a copper plate with small thermal resistance formed of approximate T-shape and a braided wire is fixed at its respectively end-parts on the rear surface of respective package in a plane-contacting state. The center part of the said member 7 is fixed with the bottom surface of the prism-attaching metal 3 also in a plane-contacting state. In order that the thermal resistance in the said contacting parts between the radiating member 7 and the rear surface of respective package of respective CCD image sensors 2r, 2g, and 2b and the bottom surface of the prism-attaching metal 3, silicon grease is applied so as not to increase thermal resistance due to generation of air gap in the said contacting parts.

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